
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: markspencer

Timestamp: Thu May 24 14:37:11 EDT 2007

Validated By CRFValidator v 1.0.2

Application No: 10590634 Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-24 12:38:39.497 **Finished:** 2007-05-24 12:38:44.679

2007 03 24 12.30.44.073

Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 182 ms

Total Warnings: 21

Total Errors: 0

No. of SeqIDs Defined: 23

Actual SeqID Count: 23

| Error code | | Error Description | | | | | | | | | |
|------------|-----|-------------------|----|---------|-------|----|-------|----|-----|----|------|
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (3) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (4) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (5) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (6) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (7) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (8) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (9) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (10) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (11) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (12) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (13) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (14) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (15) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (16) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (17) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (18) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (19) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (20) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (21) |
| W | 213 | Artificial | or | Unknown | found | in | <213> | in | SEQ | ID | (22) |

Input Set:

Output Set:

Started: 2007-05-24 12:38:39.497

Finished: 2007-05-24 12:38:44.679

Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 182 ms

Total Warnings: 21
Total Errors: 0

No. of SeqIDs Defined: 23

Actual SeqID Count: 23

Error code Error Description

This error has occured more than 20 times, will not be displayed

```
<110> Zealand Pharma A/S
<120> PEPTIDE YY ANALOGUES
<130> 15694DK00
<140> 10590634
<141> 2007-05-24
<160> 23
<170> PatentIn version 3.2
<210> 1
<211> 36
<212> PRT
<213> Homo sapiens
<400> 1
Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
                             10
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
    20
             25
Arg Gln Arg Tyr
     35
<210> 2
<211> 34
<212> PRT
<213> Homo sapiens
<220>
<221> MISC_FEATURE
<222> (1)..(34)
<223> SEQ ID NO: 1, residues 3-36
<400> 2
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
               25
      20
```

SEQUENCE LISTING

```
<210> 3
<211> 40
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(34)
\langle 223 \rangle SEQ ID NO: 2, residues 1-34
<400> 3
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
                         10
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
                         25
          20
Arg Tyr Lys Lys Lys Lys Lys
35 40
<210> 4
<211> 40
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC FEATURE
<222> (7)..(40)
<223> SEQ ID NO: 2, residues 1-34
<400> 4
Lys Lys Lys Lys Lys Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala
                      10
    5
Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
          20
                          25
```

Asn Leu Val Thr Arg Gln Arg Tyr

```
<210> 5
<211> 46
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (7)..(40)
<223> SEQ ID NO: 2, residues 1-34
<400> 5
Lys Lys Lys Lys Lys Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala
                           10
Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
              25
    20
Asn Leu Val Thr Arg Gln Arg Tyr Lys Lys Lys Lys Lys
      35
                       40
<210> 6
<211> 34
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> DISULFID
<222> (1)..(29)
<220>
<221> MISC_FEATURE
<222> (2)..(28)
<223> SEQ ID NO: 2, residues 2-28
<220>
<221> MISC_FEATURE
<222> (30)..(34)
<223> SEQ ID NO: 2, residues 30-34
<400> 6
Cys Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
```

```
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Cys Thr Arg Gln
          20
Arg Tyr
<210> 7
<211> 34
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> DISULFID
<222> (1)..(26)
<220>
<221> MISC_FEATURE
<222> (2)..(25)
<223> SEQ ID NO: 2, residues 2-25
<220>
<221> MISC_FEATURE
<222> (27)..(34)
<223> SEQ ID NO: 2, residues 27-34
<400> 7
Cys Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
   5
                  10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Cys Asn Leu Val Thr Arg Gln
         20
                           25
Arg Tyr
<210> 8
<211> 34
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
```

<220>

<221> MISC_FEATURE

```
<222> (1)..(2)
<223> SEQ ID NO: 2, residues 1-2
<220>
<221> DISULFID
<222> (3)..(24)
<220>
<221> MISC_FEATURE
<222> (4)..(23)
<223> SEQ ID NO: 2, residues 4-23
<220>
<221> MISC_FEATURE
<222> (25)..(34)
<223> SEQ ID NO: 2, residues 25-34
<400> 8
Ile Lys Cys Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
              5
                                 10
Arg Tyr Tyr Ala Ser Leu Arg Cys Tyr Leu Asn Leu Val Thr Arg Gln
           20
                            25
Arg Tyr
<210> 9
<211> 34
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(4)
<223> SEQ ID NO: 2, residues 1-4
<220>
<221> DISULFID
<222> (5)..(22)
<220>
<221> MISC_FEATURE
<222> (6)..(21)
<223> SEQ ID NO: 2, residues 6-21
<220>
<221> MISC_FEATURE
<222> (23)..(34)
```

```
<223> SEQ ID NO: 2, residues 23-34
<400> 9
Ile Lys Pro Glu Cys Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
                                  10
\hbox{Arg Tyr Tyr Ala Ser Cys Arg His Tyr Leu Asn Leu Val Thr Arg Gln}
                              25
Arg Tyr
<210> 10
<211> 33
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> SEQ ID NO: 2, residues 1-8
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is 4-(2-Aminoethyl)6-dibenzofuranpropionic acid
<220>
<221> MISC_FEATURE
<222> (10)..(33)
<223> SEQ ID NO: 2, residues 11-34
<400> 10
Ile Lys Pro Glu Ala Pro Gly Glu Xaa Ser Pro Glu Glu Leu Asn Arg
                                  10
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
```

25

30

Tyr

20

```
<211> 34
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> SEQ ID NO: 2, residues 1-8
<220>
<221> MISC_FEATURE
<222> (11)..(34)
<223> SEQ ID NO: 2, residues 11-34
<400> 11
Ile Lys Pro Glu Ala Pro Gly Glu Pro Pro Ser Pro Glu Glu Leu Asn
              5
                                 10
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
           20
                    25
Arg Tyr
<210> 12
<211> 29
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> DISULFID
<222> (1)..(24)
<220>
<221> MISC_FEATURE
<222> (2)..(9)
<223> SEQ ID NO: 2, residues 2-9
<220>
<221> MISC_FEATURE
<222> (10)..(23)
<223> SEQ ID NO: 2, residues 20-28
```

<210> 11

```
<221> MISC_FEATURE
<222> (25)..(29)
<223> SEQ ID NO: 2, residues 30-34
<400> 12
Cys Lys Pro Glu Ala Pro Gly Glu Asp Leu Asn Arg Tyr Tyr Ala Ser
                                10
Leu Arg His Tyr Leu Asn Leu Cys Thr Arg Gln Arg Tyr
     20
<210> 13
<211> 26
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> DISULFID
<222> (1)..(21)
<220>
<221> MISC_FEATURE
<222> (2)..(7)
<223> SEQ ID NO: 2, residues 2-7
<220>
<221> MISC_FEATURE
<222> (8)..(20)
<223> SEQ ID NO: 2, residues 16-28
<220>
<221> MISC_FEATURE
<222> (22)..(26)
<223> SEQ ID NO: 2, residues 30-34
<400> 13
Cys Lys Pro Glu Ala Pro Gly Asn Arg Tyr Tyr Ala Ser Leu Arg His
             5
                               10
Tyr Leu Asn Leu Cys Thr Arg Gln Arg Tyr
   20 25
<210> 14
<211> 29
<212> PRT
```

<220>

<213> Artificial

```
<220>
<223> Synthetic PYY analogue
<220>
<221> DISULFID
<222> (1)..(2)
\langle 223 \rangle SEQ ID NO: 2, residues 1-2
<220>
<221> DISULFID
<222> (3)..(19)
<220>
<221> DISULFID
<222> (4)..(9)
<223> SEQ ID NO: 2, residues 4-9
<220>
<221> DISULFID
<222> (10)..(18)
<223> SEQ ID NO: 2, residues 15-23
<220>
<221> DISULFID
<222> (20)..(29)
<223> SEQ ID NO: 2, residues 25-34
<400> 14
Ile Lys Cys Glu Ala Pro Gly Glu Asp Leu Asn Arg Tyr Tyr Ala Ser
             5
                                   10
Leu Arg Cys Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
            20
                                25
<210> 15
<211> 26
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(2)
<223> SEQ ID NO: 2, residues 1-2
<220>
<221> DISULFID
<222> (3)..(16)
```

```
<220>
<221> MISC_FEATURE
<222> (4)..(7)
<223> SEQ ID NO: 2, residues 4-7
<220>
<221> MISC_FEATURE
<222> (8)..(15)
<223> SEQ ID NO: 2, residues 16-23
<220>
<221> MISC_FEATURE
<222> (17)..(26)
<223> SEQ ID NO: 2, residues 25-34
<400> 15
Ile Lys Cys Glu Ala Pro Gly Asn Arg Tyr Tyr Ala Ser Leu Arg Cys
                                 10
Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
    20
<210> 16
<211> 24
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(24)
\langle 223 \rangle SEQ ID NO: 2, residues 11-34
<400> 16
Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
                     10
     5
Asn Leu Val Thr Arg Gln Arg Tyr
           20
<210> 17
<211> 30
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
```

```
<220>
<221> MISC_FEATURE
<222> (1)..(24)
<223> SEQ ID NO: 2, residues 11-34
<400> 17
Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
                  10
Asn Leu Val Thr Arg Gln Arg Tyr Lys Lys Lys Lys Lys
                            25
<210> 18
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(15)
<223> SEQ ID NO: 2, residues 20-34
<400> 18
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
             5
                           10
<210> 19
<211> 21
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(15)
<223> SEQ ID NO: 2, residues 20-34
<400> 19
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr Lys
   5
                   10
```

```
<210> 20
<211> 24
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(16)
<223> SEQ ID NO: 2, residues 11-26
<220>
<221> MISC_FEATURE
<222> (17)..(17)
<223> Epsilon amino group in Lys-17 is bound to the C-terminus of SEQ
      ID NO: 23 via a peptide bond
<220>
<221> MISC_FEATURE
<222> (18)..(24)
<223> SEQ ID NO: 2, residues 28-34
<400> 20
Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
                5
                                   10
Lys Leu Val Thr Arg Gln Arg Tyr
           20
<210> 21
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> SEQ ID NO: 2, residues 20-26
<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Epsilon amino group in Lys-8 is bound to the C-terminus of SEQ ID
      NO: 23 via a peptide bond
```

```
<220>
<221> MISC_FEATURE
<222> (9)..(15)
<223> SEQ ID NO: 2, residues 28-34
<400> 21
Ala Ser Leu Arg His Tyr Leu Lys Leu Val Thr Arg Gln Arg Tyr
      5
                                 10
<210> 22
<211> 21
<212> PRT
<213> Artificial
<220>
<223> Synthetic PYY analogue
<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> SEQ ID NO: 2, residues 1-5
<220>
<221> MISC_FEATURE
<222> (6)..(13)
<223> SEQ ID NO: 2, residues 19-26
<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> Epsilon amino group in Lys-14 is bound to the C-terminus of SEQ
      ID NO: 23 via a peptide bond
<220>
<221> MISC_FEATURE
<222> (15)..(21)
<223> SEQ ID NO: 2, residues 28-34
<400> 22
Ile Lys Pro Glu Ala Tyr Ala Ser Leu Arg His Tyr Leu Lys Leu Val
                          10
Thr Arg Gln Arg Tyr
           20
<210> 23
<211> 5
<212> PRT
```

<213> Artificial

```
<220>
<223> Synthetic PYY analogue

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> SEQ ID NO: 2, residues 1-5

<400> 23

Ile Lys Pro Glu Ala
1 5
```